Emission Unit: 1-BYLER

Emission Point: 09002
Height (ft.): 73 Diameter (in.): 60
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 9

Emission Point: 09003
Height (ft.): 70 Diameter (in.): 54
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 9

Emission Point: 09004
Height (ft.): 40 Diameter (in.): 28
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 9

Item 56.2:
The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 2-NIACN

Emission Point: 13005
Height (ft.): 6 Diameter (in.): 7
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 13

Emission Point: 13006
Height (ft.): 3 Diameter (in.): 4
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 13

Emission Point: 13009
Height (ft.): 33 Length (in.): 10 Width (in.): 10
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 13

Emission Point: 13014
Height (ft.): 25 Diameter (in.): 6
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 13

Emission Point: 13015
Height (ft.): 33 Diameter (in.): 8
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 13

Emission Point: 13016
Height (ft.): 34 Length (in.): 25 Width (in.): 8
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 13

Emission Point: 13017
Height (ft.): 35 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 13

Emission Point: 28006
Height (ft.): 20 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28007
Height (ft.): 22 Diameter (in.): 3
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28008
Height (ft.): 18 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28009
Height (ft.): 22 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28012
Height (ft.): 20 Diameter (in.): 3
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28014
Height (ft.): 20 Diameter (in.): 3
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28016
Height (ft.): 16 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28017
Height (ft.): 22 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28022
Height (ft.): 40 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28052
Height (ft.): 38 Diameter (in.): 3
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28054
Height (ft.): 38 Diameter (in.): 4
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28055
Height (ft.): 38 Diameter (in.): 4
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28056
Height (ft.): 38 Diameter (in.): 4
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28059
Height (ft.): 20 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28062
Height (ft.): 38 Diameter (in.): 3
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28063
Height (ft.): 36 Diameter (in.): 30
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28064
Height (ft.): 36 Diameter (in.): 6
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28065
Height (ft.): 36 Diameter (in.): 8
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28067
Height (ft.): 20 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28068
Height (ft.): 20 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28069
Height (ft.): 20 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28070
Height (ft.): 20 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28071
Height (ft.): 20 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28072
Height (ft.): 20 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 28073
Height (ft.): 20 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 53001
Height (ft.): 25 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 53

Emission Point: 53002
Height (ft.): 25 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 53

Emission Point: 53003
Height (ft.): 25 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 53

Emission Point: 53004
Height (ft.): 25 Diameter (in.): 4
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 53

Emission Point: 53006
Height (ft.): 40 Diameter (in.): 4
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 53

Emission Point: 53007
Height (ft.): 40 Length (in.): 25 Width (in.): 8
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 53

Emission Point: 53008
Height (ft.): 40 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 53

Emission Point: 53009
Height (ft.): 25 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 53

Emission Point: 53010
Height (ft.): 25 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 53

Emission Point: 53011
Height (ft.): 40 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 53

Emission Point: 53012
Height (ft.): 29 Diameter (in.): 4
Building: 53

Item 56.3:
The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 3-PYRIN

Emission Point: 13002
Height (ft.): 70 Diameter (in.): 48
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 13

Emission Point: 28066
Height (ft.): 20 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 28

Emission Point: 57004
Height (ft.): 154 Diameter (in.): 4
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 57

Emission Point: 61001
Height (ft.): 80 Diameter (in.): 60
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 61

Emission Point: 63003
Height (ft.): 10 Diameter (in.): 12
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 63

Item 56.4:
The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 4-TANKS

Emission Point: 13011
Height (ft.): 9 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 13

Emission Point: 18001
Height (ft.): 30 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 18

Emission Point: 18002
Height (ft.): 30 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 18

Emission Point: 23001
Height (ft.): 1 Diameter (in.): 4
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 23

Emission Point: 32001
Height (ft.): 24 Diameter (in.): 10

NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 32

Emission Point: 44006
Height (ft.): 30 Diameter (in.): 2
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 44

Emission Point: 68001
Height (ft.): 1 Diameter (in.): 4
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 68

Item 56.5:
The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 5-ACTPY

Emission Point: 40001
Height (ft.): 15 Diameter (in.): 4
NYTMN (km.): 4573.423 NYTME (km.): 571.632 Building: 40

Condition 57: Process Definition By Emission Unit
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 6NYCRR 201-6.

Item 57.1:
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-BYLER
Process: 101 Source Classification Code: 1-03-006-02
Process Description:
Boiler No. 2 (EP09002) is a 31.4 million BTU/hr rated Babcock & Wilcox unit equipped with a Coen dual fuel burner. The boiler is capable of firing No. 6 fuel or natural gas. Process includes any associated fugitive emissions.

Emission Source/Control: 09002 - Combustion
Design Capacity: 31.4 million Btu per hour

Item 57.2:
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-BYLER
Process: 102 Source Classification Code: 1-02-005-01
Process Description:
Boiler No. 6 (EP09003) is an 81.6 million BTU/hr rated Babcock and Wilcox unit equipped with a Coen Low-NOx burner and flue gas recirculation. The boiler is capable of operating under No. 2 fuel oil or natural gas firing conditions. The boiler currently uses No. 2

oil/natural gas burner configuration. This boiler provides primary steam for the facility. Maximum sulfur content of No. 2 fuel oil used is 1.5%. Process includes any associated fugitive emissions.

Emission Source/Control: 09003 - Combustion
Design Capacity: 81.6 million Btu per hour

Item 57.3:
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-BYLER
Process: 103 Source Classification Code: 1-02-006-02
Process Description:
Boiler No. 4 (EP09004) is a 26.4 million BTU/hr rated York-Shipley unit equipped with a natural gas burner. The boiler is operated as a secondary backup when primary/backup boilers are out of service or under maintenance. Process includes any associated fugitive emissions.

Emission Source/Control: 09004 - Combustion
Design Capacity: 26.4 million Btu per hour

Item 57.4:
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 2-NIACN
Process: 201 Source Classification Code: 3-01-060-99
Process Description:
Niacinamide manufacturing operations involving raw materials storage/processing, reaction, mixing and intermediate vessels, and final processing. Primary manufacturing unit operations are carried out in Building 28. Final processing and packaging is accomplished in Building 13. The emissions are exhausted through a total of 32 stacks located in these two buildings. Several of the particulate emission sources are controlled to recover raw material and product. Process includes any associated fugitive emissions.

Emission Source/Control: 13009 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 13014 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 13015 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 28052 - Control
Control Type: VAPOR RECOVERY SYS(INCL. CONDENSERS,HOODING, OTHER

ENCLOSURES)

Emission Source/Control: 28056 - Control
Control Type: VAPOR RECOVERY SYS(INCL. CONDENSERS,HOODING, OTHER ENCLOSURES)

Emission Source/Control: 28063 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 13005 - Process

Emission Source/Control: 13016 - Process

Emission Source/Control: 28006 - Process

Emission Source/Control: 28007 - Process

Emission Source/Control: 28008 - Process

Emission Source/Control: 28009 - Process

Emission Source/Control: 28012 - Process

Emission Source/Control: 28014 - Process

Emission Source/Control: 28016 - Process

Emission Source/Control: 28017 - Process

Emission Source/Control: 28022 - Process

Emission Source/Control: 28054 - Process

Emission Source/Control: 28055 - Process

Emission Source/Control: 28059 - Process

Emission Source/Control: 28062 - Process

Emission Source/Control: 28064 - Process

Emission Source/Control: 28065 - Process

Emission Source/Control: 28067 - Process

Emission Source/Control: 28068 - Process

Emission Source/Control: 28069 - Process

Emission Source/Control: 28070 - Process

Emission Source/Control: 28071 - Process

Emission Source/Control: 28072 - Process

Emission Source/Control: 28073 - Process

Item 57.5:
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 2-NIACN
Process: 202 Source Classification Code: 3-01-060-99
Process Description:
A new Niacinamide manufacturing process that will be under construction is new Building 53. When fully operational, this process is expected to replace the existing Niacinamide process in Buildings 13 and 28. The new process consists of 10 new emission points. Process includes any associated fugitive emissions.

Emission Source/Control: 53006 - Control
Control Type: WET SCRUBBER

Emission Source/Control: 53001 - Process

Emission Source/Control: 53002 - Process

Emission Source/Control: 53003 - Process

Emission Source/Control: 53004 - Process

Emission Source/Control: 53007 - Process

Emission Source/Control: 53008 - Process

Emission Source/Control: 53009 - Process

Emission Source/Control: 53010 - Process

Emission Source/Control: 53011 - Process

Emission Source/Control: T1401 - Process

Item 57.6:
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 3-PYRIN

Process: 301 Source Classification Code: 3-90-004-89
Process Description:
Nepera's hazardous waste incinerator (also called Boiler #5 due to heat recovery steam generation) combusts captured/vented process fumes and storage tank vapor losses. The unit is a RCRA Part B Permitted operation. Process includes any associated fugitive emissions.

Emission Source/Control: 61001 - Incinerator
Design Capacity: 70 million Btu per hour
Waste Feed Method: FLUE FED
Waste Type: HAZARDOUS WASTE

Item 57.7:
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 3-PYRIN
Process: 302 Source Classification Code: 3-90-004-89
Process Description:
Organic fume incinerator oxidizes process fumes, including periods when the hazardous waste incinerator is off-line. Total operation for this purpose is limited to a maximum of 2880 hrs/year. Process includes any associated fugitive emissions.

Emission Source/Control: 13002 - Process
Design Capacity: 30 million Btu per hour

Item 57.8:
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 3-PYRIN
Process: 303 Source Classification Code: 3-01-024-99
Process Description:
This process includes miscellaneous Pyridine process sources that are not connected to the incinerator fume line. These include Tank T-334, Catalyst Regeneration Unit, scrubber tank vent, and start up/shutdown scrubber. Process includes any associated fugitive emissions.

Emission Source/Control: 57004 - Control
Control Type: WET SCRUBBER

Emission Source/Control: 63003 - Control
Control Type: WET SCRUBBER

Emission Source/Control: 28066 - Process

Emission Source/Control: 57001 - Process

Item 57.9:
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 4-TANKS
Process: 401 Source Classification Code: 4-07-999-97
Process Description:
This process includes various tanks and storage vessels involved in the manufacture of Pyridine and Niacinamide. These tanks are not connected to the incinerator fume line. Process includes any associated fugitive emissions.

Emission Source/Control: 32001 - Control
Control Type: WET SCRUBBER

Emission Source/Control: 68001 - Control
Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: 13011 - Process

Emission Source/Control: 18001 - Process

Emission Source/Control: 18002 - Process

Emission Source/Control: 23001 - Process

Emission Source/Control: 44006 - Process

Item 57.10:
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 5-ACTPY
Process: 501 Source Classification Code: 3-01-999-99
Process Description:
Pyridine hydrochloride manufacturing operations involving raw materials storage/processing, reaction, mixing, and intermediate vessels and final processing. Pyridine hydrochloride manufacturing unit operations, final processing, and packaging are accomplished in Building 40. The process consists of one emission point. Process includes any associated fugitive emissions.

Emission Source/Control: 40001 - Control
Control Type: WET SCRUBBER

Emission Source/Control: 40002 - Process
Design Capacity: 20 gallons

Emission Source/Control: 40003 - Process
Design Capacity: 300 gallons

Condition 58: Process Permissible Emissions
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 6NYCRR 201-7.

Item 58.1:
The sum of emissions from the regulated process cited shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: 3-PYRIN Process: 302

CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN
PTE(s): 18,500 pounds per year

Condition 59: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 6NYCRR 227-2.4(d)

Item 59.1:
The Compliance Certification activity will be performed for:

Emission Unit: 1-BYLER
Process: 101 Emission Source: 09002

Item 59.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
A boiler tune-up shall be performed annually. The owner or operator of a small boiler shall maintain a log (in the format acceptable to the Department) containing the following information: (1) The date which the equipment was adjusted; and (2) The name, title, and affiliation of the person who adjusted the equipment.

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (ANNIVERSARY)
Initial Report Due: 04/17/2003 for the period 03/19/2002 through 03/18/2003

Condition 60: This is the optional condition for gas or distillate fired midsized boilers. If they opt not to use this method then 227-2.4(c)(2) applies.
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 6NYCRR 227-2.4(c)(1)(i)

Item 60.1:
This Condition applies to Emission Unit: 1-BYLER
Process: 102 Emission Source: 09003

Item 60.2:
Boilers firing natural gas and/or distillate oil shall utilize low NOx Burners.

Condition 61: This is the optional condition for residual fired midsized boilers. If they opt not to use this method, then 227-2.4(c)(2) applies. Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 6NYCRR 227-2.4(c)(1)(ii)

Item 61.1:
This Condition applies to Emission Unit: 1-BYLER
Process: 102 Emission Source: 09003

Item 61.1:
(this space used for Emission Unit)

Item 61.2:
Boilers firing residual oil shall utilize low NOx Burners and flue gas recirculation utilizing at least 10 percent recirculation.

Condition 62: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 6NYCRR 227.2(b)(1)

Item 62.1:
The Compliance Certification activity will be performed for:

Emission Unit: 1-BYLER
Process: 102 Emission Source: 09003

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 62.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
Particulate emission limit for a stationary combustion installation firing oil. The owner or operator shall complete the following once per term of this permit:

1) submit, to the Department, an acceptable protocol for the testing of particulate emission limit cited in this condition,

2) perform a stack test, based upon the approved test protocol, to determine compliance with the particulate emission limit cited in this condition, and

3) all records shall be maintained at the facility for a minimum of five years.

Parameter Monitored: PARTICULATES
Upper Permit Limit: 0.1 pounds per million Btus
Reference Test Method: Method 5
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 63: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 6NYCRR 227-2.4(d)

Item 63.1:
The Compliance Certification activity will be performed for:

Emission Unit: 1-BYLER
Process: 103 Emission Source: 09004

Item 63.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
A boiler tune-up shall be performed annually. The owner or operator of a small boiler shall maintain a log (in the format acceptable to the Department) containing the following information: (1) The date which the equipment was adjusted; and (2) The name, title, and affiliation of the person who adjusted the equipment.

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (ANNIVERSARY)
Initial Report Due: 04/17/2003 for the period 03/19/2002 through 03/18/2003

Condition 64: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 6NYCRR 227-1.3(a)

Item 64.1:
The Compliance Certification activity will be performed for:

Emission Unit: 1-BYLER Emission Point: 09002

Item 64.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent. The facility will monitor for visible emissions at least once daily and maintain recors of the observations. In addition the Department may request the facility to perform a method 9 opacity evaluation.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 65: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 6NYCRR 227-1.3(a)

Item 65.1:
The Compliance Certification activity will be performed for:

Emission Unit: 1-BYLER Emission Point: 09003

Item 65.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent. The facility will monitor for visible emissions at least once daily and maintain recors of the observations. In addition the Department may request the facility to perform a method 9 opacity evaluation.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 66: Compliance Certification

Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 6NYCRR 227-1.3(a)

Item 66.1:
The Compliance Certification activity will be performed for:

Emission Unit: 1-BYLER Emission Point: 09004

Item 66.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent. The facility will monitor for visible emissions at least once daily and maintain recors of the observations. In addition the Department may request the facility to perform a method 9 opacity evaluation.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 67: Emissions from new emission sources and/or modifications
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 6NYCRR 212.4(a)

Item 67.1:
This Condition applies to Emission Unit: 2-NIACN

Item 67.2:
No person shall cause or allow emissions that exceed the applicable permissible emission rate as determined from Table 2, Table 3, or Table 4 of 6 NYCRR Part 212 for the environmental rating issued by the commissioner.

Condition 68: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 40CFR 63.100, Subpart F

Item 68.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN

Item 68.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
The facility must comply with all applicable requirements of this Part including all references to Subparts G and H.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2002.
Subsequent reports are due every 6 calendar month(s).

Condition 69: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 40CFR 63.1203, Subpart EEE

Item 69.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN
Process: 301 Emission Source: 61001

Regulated Contaminant(s):
CAS No: 001746-01-6 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

Item 69.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
The regulated contaminant referenced in this condition corresponds to the contaminant(s) for which this requirement applies under cited federal regulation.

The Hazardous Liquid Waste Incinerator (HLWI) must not discharge or cause combustion gases to be emitted into the atmosphere that contain dioxin and furan emissions in excess of 0.2 nanograms TEQ/dscm, corrected to 7 % oxygen. An initial Comprehensive Performance Test (stack emission test) must be conducted to determine compliance with the dioxin and furan emissions limit for existing hazardous waste incinerators. The initial Comprehensive Performance Test (CPT) must be commenced six months after the compliance date, September 30, 2003.

Subsequent CPT and Confirmatory Test (CT) are waived under the interim standards. Frequency of testing shall be in accordance with 40 CFR

63.1207(d).

Reporting: Within 90 days of completing a CPT or CT per 40CFR 63.1207(j)(1)(i) and (ii).

Averaging Method: Arithmetic mean of the emission results of each run (no less than three) per 40CFR 63.1206(b)(12).

Referenced Test Method: Method 0023A, Sampling Method for Polychlorinated Dibenzo-p-dioxins and Polychlorinated Dibenzofurans emissions from stationary sources, EPA Publication SW-846. During this test the HLWI must be sampled for a minimum of three hours, must collect a minimum sample volume of 2.5 dscm and must assume nondetects are present at zero concentration per 40CFR 63.1208 (b)(1).

Parameter Monitored: CONCENTRATION
Upper Permit Limit: 0.2 nanogram toxicity equivalence per dry standard cu meter, corrected to 7% O2
Reference Test Method: 0023A SW-846
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 70: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 40CFR 63.1203(a)(2), Subpart EEE

Item 70.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN
Process: 301 Emission Source: 61001

Regulated Contaminant(s):
CAS No: 007439-97-6 MERCURY

Item 70.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
The Hazardous Liquid Waste Incinerator must not discharge or cause combustion gases to be emitted into the atmosphere that contain mercury in excess of 130 ug/dscm, corrected to 7% oxygen. An initial Comprehensive Performance Test (stack emission test) must be conducted to determine continuing compliance with the mercury limit for existing hazardous waste incinerators. The initial Comprehensive Performance

Test (CPT) must be commenced no later than six months after the compliance date September 30, 2003.

Subsequent CPTs are waived under the interim standards. Frequency of testing shall be in accordance with 40 CFR 63.1207(d).

Reporting: Within 90 days of completing a CPT per 40CFR 63.1207(j)(1)(i)

Averaging Method: Arithmetic mean of the emission result of each run (no less than three)per 40CFR 63.1206(b)(12)

Referenced test Method: Method 29, provided in Appendix A, Part 60 per 40CFR 63.1208(b)(2).

Parameter Monitored: MERCURY
Upper Permit Limit: 130 micrograms per dry standard cubic meter (corrected to 7% oxygen)
Reference Test Method: Method 29
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 71: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 40CFR 63.1203(a)(3), Subpart EEE

Item 71.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN
Process: 301 Emission Source: 61001

Item 71.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
Regulatory Contaminant: SEMIVOLATILE METALS

The Hazardous Liquid Waste Incinerator must not discharge or cause combustion gases to be emitted to the atmosphere that contain lead and cadmium (semivolatile metals), in excess of 240 ug/dscm, combined, corrected to 7% oxygen. An initial Comprehensive Performance Test (stack emission test) must be conducted to determine continuing compliance with the lead and cadmium, combined, emission limit for existing hazardous waste incinerators. The initial Comprehensive

Performance Test (CPT) must be commenced no later than six months after the compliance date (September 30, 2003).

Subsequent CPTs are waived under the interim standards. Frequency of testing shall be in accordance with 40 CFR 63.1207(d).

Reporting: Within 90 days of completing a CPT per 40CFR 63.1207(j)(1)(i).

Averaging Method: Arithmetic mean of the emission results of each run (no less than three) per 40CFR 63.1206(b)(12).

Referenced Test Method: Method 29, provided in Appendix A, Part 60 per 40 CFR 63.1208(b)(3).

Parameter Monitored: CONCENTRATION
Upper Permit Limit: 240 micrograms per dry standard cubic meter (corrected to 7% oxygen)
Reference Test Method: Method 29
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 72: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 40CFR 63.1203(a)(4), Subpart EEE

Item 72.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN
Process: 301 Emission Source: 61001

Item 72.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
Regulatory Contaminant: LOW VOLATILITY METALS

The Hazardous Liquid Waste Incinerator must not discharge or cause combustion gases to be emitted to the atmosphere that contain arsenic, beryllium and chromium (low volatile metals) in excess of 97 ug/dscm, combined, corrected to 7% oxygen. A initial Comprehensive Performance Test (stack emission test) must be conducted to determine continuing compliance with the arsenic, beryllium, and chromium, combined emissions limit for existing hazardous waste incinerators. The

initial Comprehensive Performance Test (CPT) must be commenced no later than six months after the compliance date of September 30, 2003.

Subsequent CPTs are waived under the interim standards. Frequency of testing shall be in accordance with 40 CFR 63.1207(d).

Reporting: Within 90 days of completion of the CPT per 40 CFR 63.1207(j)(12)(i).

Averaging Method: Arithmetic mean of the emission results of each run (no less than three) per 40CFR 63.1206(b)(12).

Reference test method: Method 29, provided in Appendix A, Part 60 per 40CFR 63.1208(b)(4).

Parameter Monitored: CONCENTRATION
Upper Permit Limit: 97 micrograms per dry standard cubic meter (corrected to 7% oxygen)
Reference Test Method: Method 29
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 73: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 40CFR 63.1203(a)(5)(i), Subpart EEE

Item 73.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN
Process: 301 Emission Source: 61001

Regulated Contaminant(s):
CAS No: 068514-31-8 HYDROCARBONS, C1-4

Item 73.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
The Hazardous Liquid Waste Incinerator (HLWI) must not discharge or cause combustion gases to be emitted into the atmosphere that contain hydrocarbons in excess of 10 parts per million by volume, over an hourly rolling average, dry basis corrected to 7% oxygen. An initial Comprehensive Performance Test must be conducted to demonstrate continuing compliance with the hydrocarbons emission limit for

existing hazardous waste incinerators. An initial Comprehensive Performance Test (CPT) must be commenced no later than six months after the compliance date (September 30, 2003). Testing for compliance with the hydrocarbons emission standard must be conducted at the same time the destruction and removal efficiency test runs (if DREs are being demonstrated) or their equivalent are being performed.

Subsequent CPTs are waived under the interim standards. Frequency of testing shall be in accordance with 40 CFR 63.1207(d).

Reporting : within 90 of completion of a CPT per 40CFR 1207(j)(1)(i).

Averaging Method: The highest hourly rolling average hydrocarbon emissions during the DRE or DRE equivalent testing (no less than three runs) of a comprehensive performance test.

Test Method: Method 25A or B, as provided in Appendix A, Part 60.

Parameter Monitored: HYDROCARBONS, C1-4
Upper Permit Limit: 10 parts per million by volume (dry, corrected to 7% O2)
Reference Test Method: Method 25A or B
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 74: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 40CFR 63.1203(a)(5)(i), Subpart EEE

Item 74.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN
Process: 301 Emission Source: 61001

Regulated Contaminant(s):
CAS No: 000630-08-0 CARBON MONOXIDE

Item 74.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
Monitoring Description:
The Hazardous Liquid Waste Incinerator must not discharge or cause

combustion gases to be emitted into the atmosphere that contain carbon monoxide in excess on 100 parts per million by volume, over a hourly rolling average monitored continuously with a continuous emission monitoring system (CEMS), dry basis, corrected to 7% oxygen (also a CEMS). The Carbon Monoxide and Oxygen CEMS must have a Relative Accuracy Test Audit (RATA) yearly and Absolute Gas Audit (AGA) the other three quarters of the year per the Performance Specification 4B provided in Appendix B of 40CFR Part 60 and Appendix to Subpart EEE of 40CFR Part 63. As provided in Performance Specification 4B Section 7.3 in appendix B of 40CFR Part 60, an alternative Relative Accuracy Procedure, subject to approval by the Regional Administrator, may be used as an alternative to the RATA.

Test Method: CEMS

Performance Specification: 4B as provided in Appendix B, Part 60 and Appendix to Subpart EEE of Part 63 per 40CFR 63.1209(a)(2).

Manufacturer Name/Model Number: CEM
Parameter Monitored: CARBON MONOXIDE
Upper Permit Limit: 100 parts per million by volume (dry, corrected to 7% O2)
Reference Test Method: CEMS
Monitoring Frequency: CONTINUOUS
Averaging Method: 1 HOUR ROLLING AVERAGE ROLLED EVERY 1 MINUTE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2002.
Subsequent reports are due every 6 calendar month(s).

Condition 75: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 40CFR 63.1203(a)(6), Subpart EEE

Item 75.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN
Process: 301 Emission Source: 61001

Item 75.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
Regulatory Contaminant: TOTAL CHLORINE

The Hazardous Liquid Waste Incinerator must not discharge or cause combustion gases to be emitted to the atmosphere that contain hydrochloric acid and chlorine gas emissions in excess of 77 parts per million by volume, combined emissions, expressed as hydrochloric acid equivalents, dry basis and corrected to 7% oxygen. An initial Comprehensive Performance Test (stack emission test) must be conducted to determine continuing compliance with the hydrochloric acid and chlorine gas emissions limit for existing hazardous waste incinerators. The initial Comprehensive Performance Test (CPT) must commence no later than six months after the compliance date of September 30, 2003.

Subsequent CPTs are waived under the interim standards. Frequency of testing shall be in accordance with 40 CFR 63.1207(d).

Reporting : within 90 day of completion of a CPT per 40CFR 63.1207 (j)(1)(i).

Averaging Method: arithmetic mean of the emission results of each run (no less than three) per 40CFR 63.1206(b)(2).

Referenced Test Methods: Methods 26A, 320, or 321, provided in Appendix A, Part 60 per 40CFR 63.1208(b)(5).

Parameter Monitored: HYDROGEN CHLORIDE
Upper Permit Limit: 77 parts per million by volume (dry, corrected to 7% O2)
Reference Test Method: Method 26A
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 76: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 40CFR 63.1203(a)(7), Subpart EEE

Item 76.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN
Process: 301 Emission Source: 61001

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 76.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:

The Hazardous Liquid Waste Incinerator must not discharge or cause combustion gases to be emitted to the atmosphere that contain particulate matter in excess of 34 mg/dscm, corrected to 7% oxygen. An initial Comprehensive Performance Test (stack emission test) must be conducted to determine continuing compliance with the particulate matter emissions limit for existing hazardous waste incinerators. The initial Comprehensive Performance Test (CPT) must be commenced no later than six months after the compliance date of September 30, 2003.

Subsequent CPTs are waived under the interim standards. Frequency of testing shall be in accordance with 40 CFR 63.1207(d).

Reporting: within 90 days of completing a CPT per 40CFR 63.1207(j)(1)(i).

Averaging Method: arithmetic mean of the emission results of each run (no less than three) per 40CFR 63.1206(b)(12).

Referenced Test Method: Method 5 or 5I, provided in Appendix A, Part 60 per 40CFR 63.1208(b)(6)

Parameter Monitored: PARTICULATES
Upper Permit Limit: 34 milligrams per dry standard cubic meter (corrected to 7% oxygen)
Reference Test Method: Method 5 or 5I
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 77: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 40CFR 63.1203(c), Subpart EEE

Item 77.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN
Process: 301 Emission Source: 61001

Item 77.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
DESTRUCTION AND REMOVAL EFFICIENCY

The Hazardous Liquid Waste Incinerator (HLWI) must achieve a destruction and removal efficiency (DRE) of 99.99%* for each specified principle organic hazardous constituent (POHC) in the waste to be incinerated (non PCB, non dioxin/furan waste). The specification of a POHC in the waste feed will be based on the degree of difficulty to incinerate the organic constituents in the waste and on the concentration in the waste feed considering the results of waste analyses and other data. The DRE demonstration must be conducted during the initial Comprehensive Performance Test. The initial CPT must be commenced no later than six months after the compliance date of September 30, 2003. The DRE for each POHC must be calculated using the following equation:

DRE = [1-(Wout/Win)] x 100%

Where:
Win = mass feed rate of one organic hazardous constituent in a waste stream; and
Wout = mass emission rate of the same POHC present in the exhaust emissions prior to release to the atmosphere.

Reporting: Within 90 days of completing the initial CPT per 40CFR 63.1207(j)(1)(i).

Averaging method: per above calculation - all designated POHCs in each run (no less than three runs) must demonstrate a DRE of no less than 99.99% for each run, individually per 40CFR 63.1206(b)(12).

Parameter Monitored: DESTRUCTION EFFICIENCY
Upper Permit Limit: 99.99 percent
Reference Test Method: .
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 78: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 40CFR 63.1206(a), Subpart EEE

Item 78.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN

Process: 301 Emission Source: 61001

Item 78.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
The Hazardous Liquid Waste Incinerator must comply with the standards of 40CFR Part 60 Subpart EEE no later than September 30, 2003.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 79: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 40CFR 63.1206(b), Subpart EEE

Item 79.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN
Process: 301 Emission Source: 61001

Item 79.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
Hazardous Liquid Waste Incinerator (HLWI) compliance with standards:

(1) The emission standards and operating conditions apply per 40CFR 63.1206(b)(1), at all times except (i) during periods of start up, shutdown and malfunction and (ii) when hazardous waste is not in the chamber.

(2) The Administrator will determine the HLWI compliance with the emission standards of this subpart as provided by 40CFR 63.6(f)(2). Per this subpart, conducting performance testing under operating conditions representative of the extreme range of normal conditions is consistent with 40CFR 63.6(f)(2)(iii)(B) and 40CFR 63.7(e)(1) conducting performance testing under representative operating conditions per 40CFR 63.1206(b)(2).

(3) The Administrator will make a finding concerning the HLWI compliance with the emission standards and other requirements of Subpart EEE as provided in 40CFR 63.6 (f)(3) per 40CFR

63.1206(b)(3).

(4) The Administrator may grant an extension of compliance with the emission standards of subpart EEE as provided by 40CFR 63.6(i) and 40CFR 63.1213 per 40CFR 63.1206(b)(4).

(5) Any changes in HLWI design, operation, or maintenance practices that is documented in the Comprehensive Performance Test (CPT) plan, the Notice of Compliance (NOC) and the Start-up, Shutdown and Malfunction Plan (SSMP) plan that will:

(A) not affect the Hazardous Liquid Waste Incinerator's compliance with the emission standards or operating requirements must be documented in the operating record per 40CFR 63.1206(b)(5)(ii); or any changes that will:

(B) adversely affect compliance with any emission standard not monitored with a CEMS: must notify the Administrator at least 60 days prior to the change per 40CFR 63. 1206(b)(5)(i)(A); must conduct a performance test under the requirements of 40CFR 63.1207(f) and (g)(1) to document compliance with the affected standard(s) and must establish operating parameter limits required under 40CFR 63.1209 and must submit an NOC under 40CFR 63.1207(j) and 40CFR 63.1210(d) while limiting hazardous waste burning for no more than 720 hours (only for pretesting or CPT and renewable at the discretion of the Administrator) unless written approval is received from the Administrator to burn hazardous waste for purposes other than pretesting and CPT per 40CFR 63.1206(b)(5)(i)(C). (This requirement only applies to the SSMP if it has been submitted to the NYSDEC and/or USEPA.)

(6) The Hazardous Liquid Waste Incinerator must document compliance with the DRE standards by performing DRE testing during the initial Comprehensive Performance Test per 40CFR63.1206(b)(7)(iii).

(7)The Hazardous Liquid Waste Incinerator's hazardous waste residence time must be calculated and included in the performance test plan under 40CFR 63.1207(f), in the Documentation of Compliance (DOC) under40CFR 63.1211(d) and the NOC under 40CFR 63.1207(j) and 40CFR 63.1210(d) per 40CFR 63.1206(b)(11).

(8)The Hazardous Liquid Waste Incinerator must document compliance with the emission standards of Subpart EEE with a minimum of three runs of a performance test. Compliance with the emission standards of this subpart must be based on the arithmetic average of the emission results of each run except for the DRE standard which must document compliance with the standard for each performance test run, individually, per 40CFR 63.1206(b)(12).

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 80: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 40CFR 63.1206(c), Subpart EEE

Item 80.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN
Process: 301 Emission Source: 61001

Item 80.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
The Hazardous Liquid Waste Incinerator Operating Requirements:

(1)The Hazardous Liquid Waste Incinerator (HLWI) must operate

(A) only under the operating requirements specified in the Documentation of Compliance (DOC) under 40CFR 63.1211(d) or the Notification of Compliance (NOC) under 40CFR 63.1207(j) and 63.1210(d) except during performance tests under approved test plans, during periods of startup, shutdown or malfunction, or when there in no hazardous waste in the combustion chamber;
(B) The DOC and NOC must contain at least the operating requirements of this section and the operating requirements of 40CFR 63. 1209;
(C) Operating requirements in the NOC are applicable requirements for the purposes of parts 70 and 71 of this chapter;
(D) the operating requirements specified in the NOC will be incorporated in the title V permit.

(2)The HLWI is subject to the startup, shutdown and malfunction plan (SSMP) requirements of 40CFR 63.6(e)(3). The SSMP plan is subject to the requirements of 40CFR 63.1206(c)(2).

(3) The HLWI must continue to operate with a functioning system that immediately and automatically shuts off hazardous waste feed. By the compliance date, September 30, 2003, the automatic waste feed cutoff (AWFCO) system must activate when any of the following are exceeded : the operating limits specified under 40CFR 63.1209, an emission

standard monitored by a CEMS; when the span value of any CMS detector except a CEMS, is met or exceeded; when a CMS monitoring an operating parameter limit specified under 40CFR 63.1209 or an emission level malfunctions; and when any component of the AWFCO system fails.

(A) During the AWFCO the operating parameters for which limits are established under 40CFR 63.1209 and the emissions required to be monitored with a CEMS under that section must continue to be monitored and hazardous waste feed must not be restarted until the operating parameters and emission levels are within the specified limits.

(B) If the AWFCO system fails to automatically and immediately cutoff hazardous waste feed to the hazardous Liquid Waste Incinerator upon exceedance of a parameter required to be interlocked, compliance with the AWFCO requirements has failed.

(C) If, after any AWFCO, there is an exceedance of an emission standard or operating requirement, regardless of whether the exceedance occurred while hazardous waste remained in the combustion chamber, the cause of the AWFCO must be investigated, corrective actions must be taken to minimize future AWFCOs and the findings and corrective actions must be recorded in the operating record.

(D) For each set of 10 exceedances of an emission standard or operating requirement while hazardous waste in the combustion chamber during a 60 day block period, within 5 days of the 10th exceedance, a written report documenting the exceedances, the results of the investigation and the corrective measures taken must be submitted to the Administrator.

(E) The AWFCO system and associated alarms must be tested at least weekly to verify operability. AWFCO operability test procedures and results must be documented and recorded in the operating record per 40CFR 63.1206(c)(3).

The HLWI currently has an extensive set of operating parameters that are continuously monitored and AWFCO. While these AWFCO meet many of the criteria cited in 40CFR 63.1206(c)(3), the existing AWFCO system will have to be evaluated and revised to meet all the requirement for AWFCOs in 40CFR 63.1206 and 40CFR 63.1209 by the compliance date. These and any revised AWFCO limits set by the CPT will become part of the Title V Permit.

(5)An operation and maintenance plan must be prepared for the HLWI that describes in details the procedures for operation, inspection, maintenance and corrective measures for all components of the combustor, including any associated pollution control equipment that could affect the emission of regulated hazardous air pollutants. The plan must describe how the HLWI will be operated and maintained in a manner consistent with good air pollution control practices for minimizing emissions at least to the level achieved during the Comprehensive Performance Test, ensure compliance with the operation

and maintenance requirements of 40CFR 63.6(e) and minimize emissions of pollutants, AWFCOs and malfunctions. The operations and maintenance plan must be recorded in the operating plan and must be available to regulatory personnel during facility inspections per 40CFR 63.1206(c)(7).

The HLWI currently has an existing Operating Manual and a separate Maintenance Plan. The existing Operations manual and the Maintenance Plan must be evaluated and revised, as needed, to ensure they meet all the requirements of this subpart. The revised operating and maintenance plan must be entered into the operating record and complied with by the compliance date.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 81: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 40CFR 63.1206(c), Subpart EEE

Item 81.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN
Process: 301 Emission Source: 61001

Item 81.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
Facility must follow the standards for operator training outlined in this Part.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 82: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 40CFR 63.1207, Subpart EEE

Item 82.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN
Process: 301 Emission Source: 61001

Item 82.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
Confirmatory Performance Testing Requirements
WAIVED UNDER INTERIM STANDARDS

1. Confirmatory Performance Tests (CT) at the hazardous Liquid Waste Incinerator (HLWI) must be conducted per 40CFR 63.1207(b)(2) to demonstrate compliance with the dioxin/furan emission standards of 40CFR 63.1203 when the HLWI is operating under normal conditions and to conduct a performance evaluation of the continuous monitoring systems (CMS) required for compliance assurance with the dioxin and furan emission standard under 40CFR 63.1209(k).

2. A least 60 days prior to conducting a CT and CMS performance evaluations at the HLWI, a notification of the intent to conduct the CT and CMS performance evaluations, and a site specific test plan and CMS performance evaluation test plan must be submitted to the Administrator as provided in 40CFR 63.1207 (e)(1)(ii). The CT plan must include the information required in 40CFR63.1207(f)(2).

3. The Administrator will notify the owner of the HLWI of the approval or intent to deny approval of the site specific test plan and the CMS performance evaluation test plan within 30 calendar days of receipt of the original plan per 40CFR 63.1207 (e)(1)(ii).

4. After the Administrator has approved the site specific test plan and CMS performance evaluation test plan, the plans must be made available to the public for review by issuing a public notice announcing the approval of the test plans and the location where the plans are available for review per 40CFR 63.1207(e)(2).

5.The CT must be performed in accordance with 40 CFR 1207(d)(2)
.

6. Operating conditions at the HLWI during CT testing must be per 40CFR 63.1207(g)(2).

7. The CT must be completed within 60 days after the date of commencement per 40CFR 63.1207 (d)(3).

8. Within 90 days after completing a CT, a Notice of Compliance (NOC), documenting compliance or noncompliance with the dioxin/furan emission standard must be postmarked as required in 40CFR 63.107(j)(2).

9. If the NOC is not postmarked by the date 90 days after the completion date of the CT, hazardous waste burning at the HLWI must cease immediately and the conditions provided in 40CFR 63.1207 (k) apply.

10. If the HLWI is determined to have failed the dioxin/furan emission standard during the CT, hazardous waste burning must cease immediately and the conditions provided in 40CFR 63.1207(l)(2) apply. This determination must be made within 90 days of completing the CT.

11. The subsequent CT must be commenced no earlier than 18 months and no later than 31 months after the date of commencing the previous CPT per 40CFR 63.1207(d)(2).

12. After the initial CPT at the HLWI, a request for up to a one year extension for conducting a CT may be made to the Administrator per the condition provided in 40CFR 63.1207(i).

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 83: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 40CFR 63.1207, Subpart EEE

Item 83.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN
Process: 301 Emission Source: 61001

Regulated Contaminant(s):
CAS No: 0NY100-00-0 HAP

Item 83.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
Comprehensive Performance Testing Requirements

1. Comprehensive Performance Tests (CPT) at the hazardous Liquid Waste Incinerator (HLWI) must be conducted per 40CFR 63.1207(b)(1) to demonstrate compliance with the emission standards of 40CFR 63.1203, establish limits for operating parameters under 40CFR 63.1209 and demonstrate compliance with the performance specifications for continuous monitoring systems (CMS).

2. A least one year prior to conducting a CPT and CMS performance evaluation at the HLWI, a notification of the intent to conduct the CPT and CMS performance evaluations, and a site specific test plan and CMS performance evaluation test plan must be submitted to the Administrator per 40CFR 631207(e)(1). The CPT plan must include the information specified in 40CFR 63.7(c)(i)-(iii) and (v) and 40CFR 63.1207(f)(1).

3. The Administrator will notify the owner of the HLWI of the approval or the intent to deny approval of the site specific test plan and CMS performance evaluation test plan within 9 months of receipt of the original plan per 40CFR 63.1207(e)(1)(i)(A).

4. After the Administrator has approved the test plan and the CMS evaluation plan, the plans must be made available to the public for review by the owner of the HLWI by issuing a public notice announcing the approval of the plans and the location where the plans are available for review per 40CFR 63.1207(e)(2).

5. At least 60 calendar days before the CPT is scheduled to begin, the HLWI owner must notify the Administrator of the intention to conduct the CPT per 40CFR 63.1207(e)(1)(i)(B).

6. The initial CPT at the HLWI under 40CFR Part 63 Subpart EEE must commence by March 30, 2004, no later than six months after the compliance date of September 30, 2003.

7. Operating conditions at the HLWI during the CPT must be per 40CFR 63.1207(g)(1).

8. The CPT must be completed within 60 days after the date of commencement per 40CFR 63.1207(d)(3).

9. Within 90 days after completion of a CPT, a Notice of Compliance (NOC), documenting compliance or noncompliance with the emission standards and CMS requirements and identifying the operating parameter limits under 40CFR 63.1209, must be post marked by the owner to the Administrator. Upon postmark of the NOC, all operating limits specified in the NOC must be complied with in place of those in the Document of Compliance (DOC) required under 40CFR 63.1211 per 40CFR 63.1207(j)(1)and 40CFR 63.1210(d).

10. If the NOC is not post marked by the date 90 days after completion of the CPT, hazardous waste burning at the HLWI must cease immediately and the conditions provided in 40CFR 63.1207(k) apply.

11. If the HLWI is determined to have exceeded any emission standards

during the CPT for any mode of operation, hazardous waste burning for that mode must cease immediately and the conditions provided in 40CFR 63.1207(l) apply. This determination must be made within 90 days of completing the CPT.

12. The subsequent CPTs are waived under the interim standards. Frequency of testing shall be in accordance with 40 CFR 63.1207(d). During subsequent testing and the pretesting prior to testing, current operating parameters and limits are waived for an aggregate of time not to exceed 720 hours of operation (renewable at the discretion of the Administrator) per 40CFR 63.1207(h).

13. After the initial CPT at the HLWI, the owner may request the Administrator for an extension for up to one year for conducting the CPT as provided in 40CFR 63.1207(i).

14. Compliance tests are not required to document compliance with the mercury, semivolatile metals, the low volatile metals or the hydrochloric acid/chlorine gas emission standards if the twelve hour rolling average maximum theoretical emission concentration (MTEC) determined by 40CFR 63.1207(m)(2) does not exceed the emission standard(s). Added requirements for waiver of performance testing are provided in 40CFR 63.7 and 40CFR 63.1207(m).

15. Separate feed rate limits must be estab

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 84: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 40CFR 63.1209(a), Subpart EEE

Item 84.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN
Process: 301 Emission Source: 61001

Item 84.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
Continuous Emission Monitoring Systems (CEMS) Monitoring Requirements:

1. The owner of the hazardous Liquid Waste Incinerator (HLWI) must use a carbon monoxide CEMS to demonstrate and monitor compliance with the carbon monoxide standard under 40CFR Part 63 Subpart EEE. The owner must also use an oxygen CEMS to continuously correct the carbon monoxide level to 7% oxygen per 40CFR 63.1209(a)(1)(i). The CEMS must be installed, calibrated, maintained and continuously operated per the performance specifications (PS) 4B (carbon monoxide and oxygen) in Appendix B, 40CFR Part 60 and with the quality assurance procedures provided in the Appendix to Subpart EEE (Quality Assurance Procedures for Continuous Emission Monitors Used for Hazardous Waste Combustors) per 40CFR 63.1209(a)(2). If the carbon monoxide CEM detects a response that results in a one minute average (OMA) at or above the 3000 ppmv span level required by PS 4B in Appendix B, Part 60, the OMA must be recorded as 10,000 ppmv and this value used for calculating the hourly rolling average (HRA) carbon monoxide level per 40 CFR 63.1209(3)(i).

The HLWI currently operates a CO CEMS and an Oxygen CEMS to continuously monitor the CO concentration in the stack gases, corrected to 7% oxygen. These CEMS will have to be evaluated for compliance with the above performance specifications and revised where necessary by the compliance date. The CO high span of 3,000 ppmv will have to have its program modified to replace the current maximum OMA average value of 3,000 ppmv with a 10,000 ppmv value used to calculate the HRA when the CO CEMS detects a response that results in a OMA at or above 3,000 ppmv. If the owner of the HLWI decides at a later date to change the CO CEMS such that the span value is 10,000 ppmv, then the requirements of 40CFR 63.1209(a)(3)(ii) will apply.

2. The HLWI carbon monoxide CEMS must begin collecting OMA values by 12:01 and the initial HRA by 1:01 of the compliance date. If the HLWI owner elects to come into compliance before the regulatory compliance date, the HLWI recording of the OMA and HRA must begin within 60 seconds and 60 minutes, respectively, from the time at which compliance begins per 40 CFR 63.1209(a)(6)(i). Periods of time when one minute values are not available for calculating the hourly rolling average must be ignore and when OMA values become available again, added to the previous 59 values to calculate the HRA per 40CFR 63.1209(a)(6)(ii). CO monitoring must continue when the hazardous waste feed is cut off if the HLWI is operating. Hazardous waste feed must not be resumed if the emission levels exceed the standard per 40CFR 63.1209(a)(6)(iii).

The HLWI carbon monoxide and oxygen CEMS have been operational and continuously collecting CO OMA since 1993. Since the CO CEMS is actually composed of two identical CO analyzers, only one of which is on line at a time for about twelve hours per day, there is no time

that the CO OMA is not available for calculating the HRA since the analyzers calibrate while off line. The CO concentration in the stack gas is continuously monitored by the on line CEMS whether hazardous waste is being incinerated or not and the AWFCO system prevents feeding hazardous waste if the HRA exceeds 100 ppmv.

3. The owner of the HLWI may petition the Administrator to use CEMS for compliance monitoring for mercury, semivolatile metals, low volatile metals, hydrochloric acid/chlorine gas and particulate matter under 40CFR 63.8(f) in place of compliance with the corresponding operating parameter limits under 40CFR 63.1209(l)-(o) per 40CFR 63.1209(a)(5).

4. If the HLWI elects to comply with the carbon monoxide and hydrocarbon standards by continuously monitoring carbon monoxide with a CEMS, it must demonstrate that hydrocarbon emissions do not exceed the standard during the Comprehensive Performance Test. If the DRE test and the hydrocarbon demonstration test do not occur concurrently, the minimum combustion chamber temperature, maximum flue gas flow rate, maximum hazardous waste feed rate and other operating parameter limits specified to ensure good hazardous waste firing system operations must be established for each test with the more restrictive limit applying as the operating parameter limit per 40CFR 63.1209(a)(7)..

5. When the Administrator's Agency promulgates all the performance specifications and operational requirements applicable to particulate matter CEMS, a particulate matter CEMS must be installed, calibrated, maintained and operated at the HLWI to demonstrate and monitor compliance with the particulate matter standards per 40CFR 63.1209(a)(1)(iii).

6. Performance evaluations. The HLWI performance evaluation requirements of 40CFR 63.8(d) and (e) apply except that the quality assurance procedures for CEMS in Appendix to Subpart EEE of Part 63 must be complied with per 40CFR 63.1209(d)(2).

7. Operation and Maintenance of Continuous Monitoring Systems. The provisions of 40CFR 63.8(c) must be complied with except the performance specifications for carbon monoxide and oxygen CEMS in Subpart B, Part 60 requires detectors to measure the sample concentrations at least once every 15 seconds for calculating an average emission rate every 60 seconds instead of section 40CFR 63.8(4)(ii) per 40 CFR 63.1209(f).

8. Alternative Monitoring requirements other than CEMS. The HLWI may request the Administrator to approve the use of alternative monitoring requirement in place of CEMS per 40CFR 63.1209(g).

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 85: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 40CFR 63.1209(b), Subpart EEE

Item 85.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN
Process: 301 Emission Source: 61001

Item 85.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
Other Continuous Monitoring Systems (CMS) Monitoring Requirements

(1) You must use CMS (e.g., thermocouples, pressure transducers, flow meters) to document compliance with the applicable operating parameter limits under this section. Except as specified in paragraphs (i) and (ii) of this section, you must install and operate continuous monitoring systems other than CEMS in conformance with § 63.8(c)(3) that requires you, at a minimum, to comply with the manufacturer's written specifications or recommendations for installation, operation, and calibration of the system:

(i) Calibration of thermocouples: The calibration of thermocouples must be verified at a frequency and in a manner consistent with manufacturer specifications, but no less frequent than once per year.

2. The Hazardous Liquid Waste Incinerator must use CMS (e.g., thermocouples, pressure transducers, flow meters) to document compliance with the applicable operating parameter limits specified in 40CFR 63.1209. CMS must sample the regulated parameter without interruption and evaluate the detector response at least once every 15 seconds and compute and record the averages at least once every 60 seconds per 40 CFR 63.1209(b)(3). As stated in the requirements of 40CFR 63.1206(c) the span of the CMS which are not CEMS must not be exceeded and must automatic waste feed cut off (AWFCO) when span limits are exceeded per 40 CFR 63.1209(b)(4). CMS must begin recording one minute averages by 12:01 AM of the compliance date and begin

recording rolling averages when enough OMA are available to calculate the required rolling average. If the HLWI owner decides to come into compliance before the regulatory compliance date, the HLWI must begin recording OMA, HRA and 12-hour rolling averages within 60 seconds, 60 minutes and 720 minutes, respectively, from the time at which compliance begins comes per 40 CFR 63.1209(b)(5). Periods of time when the one minute values are not available for calculating rolling averages must be ignored. When the one minute values are available again, the value is added to the previous values to calculate the rolling averages, per 40CFR 63.1209(b)(5)(ii). The operating parameter limits must continue to be monitored with CMS when the hazardous waste is cut off and the HLWI is operating. Hazardous waste feed must not be resumed if an operating limit parameter exceeds its limit per 40CFR 63.1209(b)(5)(iii).

3. Performance Evaluations. The performance evaluation requirements of 40CFR 63.8(d) and (e) apply except that the HLWI performance evaluations of the CMS must be conducted under the frequency and procedures applicable to the performance tests as provided in 40CFR 63.1207 per 40 CFR 63.1209(d)(1).

4. Conduct of Monitoring. The provisions of 40CFR 63.8(b) apply per 40CFR 63.1209(e).

5. Operation and Maintenance of Continuous Monitoring Systems. The provisions of 40CFR 63.8(c) must be complied with except the requirements of 40CFR 63.1211(d) that require that the CMSs must be installed, calibrated and operational by the compliance date shall be complied with instead of 40CFR 63.8(c)(3) per 40CFR 63.1209(f).

6. Reduction of Monitoring data. Monitoring data will be reduced per 40CFR 63.8(g) per 40 CFR 63.1209(h).

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 86: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 40CFR 63.1209(c), Subpart EEE

Item 86.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN
Process: 301 Emission Source: 61001

Item 86.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
Other Monitoring requirements

1. Analysis of Feed streams

i.) The hazardous Liquid Waste Incinerator (HLWI) must develop and implement a feed stream analysis plan (FAP), and record it in the operating record. If requested, the Feed stream Analysis Plan must be submitted to the Administrator and/or the Department for review and approval. The plan must include, at a minimum, parameters each feed stream will be analyzed for to ensure compliance with the operating limits of 40CFR 63.1209; specification as to whether the analysis will be obtained by sampling and performing analysis or other methods; how the analysis will be used to document compliance with feed rate limits; test methods used to obtain analysis; sampling methods used to obtain representative samples to be analyzed using the sampling method of Appendix I, Part 26 or an a equivalent method; and the frequency of review and repeat analysis of the feed stream to ensure the analysis is accurate and up to date per 40CFR 63.1209(c)(2).

ii.) To comply with feed rate limits the HLWI must monitor and record feed rates by determining and recording the value of the parameter for each feed stream by sampling and analysis or other method; determining and recording the mass or volume flow rate of each feed stream using a CMS; and calculating and recording the mass feed rate of the parameter per unit time per 40CFR 63.1209(c)(4).

iii.) The natural gas and process air at the HLWI are not required to have the levels of metal and chlorine monitored, provided that expected levels of these constituents are documented in the Comprehensive Performance Test plan and the assumed feed rate levels are accounted for in documenting compliance with the feed rate limits per 40CFR 63.1209(c)(5).

2. If the HLWI selects to operate under different modes of operation, operating parameter limits must be established for each mode of operation. Mode of operation change and compliance with alternate mode of operation operating parameter limits must be documented in the operating record. The hourly rolling averages must begin to calculate anew when the alternate mode of operation operating parameter limits begin be implemented per 40CFR 63.1209(q).

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 87: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 40CFR 63.1209(i), Subpart EEE

Item 87.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN
Process: 301 Emission Source: 61001

Item 87.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
Operating Limits to be Established for Emission Standards

1. To maintain compliance with the following standards the Hazardous Liquid Waste Incinerator (HLWI) must establish operating limits during the Comprehensive Performance Test for the following parameters, unless limits are based on manufacturers specifications; and comply with those limits at all times that hazardous waste is in the combustion chamber by the compliance date of September 30, 2003. When an operating parameter is applicable to multiple standards and the performance test for such tests are not performed simultaneously, the most stringent parameter derived from independent performance test applies per 40 CFR 63.1209(i).

2. The HLWI owner may submit an application to use an alternate monitoring requirement(s) and/or to waive a operating parameter limit specified in 40CFR Part 63.1209 no later than with the comprehensive performance test plan following the requirements in 40CFR Part 63.1209(g). If a waiver(s) and/or alternate monitoring parameter limit(s) is approved by the Administrator, it (they) will be incorporated into the Title V Permit.

3. DRE - To comply with the destruction and removal efficiency (DRE) standards, the permittee must establish operating parameter limits per 40CFR 63.1209(j) as follows:

i.) Minimum Combustion Chamber Temperature -The HLWI must establish a minimum combustion chamber temperature at a location that best represents the bulk gas temperature in the combustion zone as documented in the test plan under 40CFR 63.1207(e) as a minimum hourly rolling average limit as the average of the test run averages.

ii.) Maximum Flue Gas Flow Rate - As an indicator of gas residence

time in the control device, the HLWI maximum flue gas flow rate limit must be established per the site specific test plan as the average of the maximum hourly rolling average for each run. Compliance with this limit will be on the basis of an hourly rolling average.

iii.)Maximum Hazardous Waste Feed rate - The HLWI must establish a maximum hazardous waste feed rate limit for each location that hazardous waste is fed as an hourly rolling average from the average of the maximum average hourly rolling average for each run.

iv.) Operating parameters and limits must be specified to ensure maintenance of good operation of each firing system. These limits must be based on operational limits established during the CPT unless they are based on manufacturer's specifications.

4. Dioxins and Furans - To comply with the dioxins and furans standard, the permittee must establish operating parameter limits per 40CFR 63.1209(k) as follows:

i.) Minimum Combustion Chamber Temperature - same as (3)(i) above.

ii.) Maximum Flue Gas Flow Rate - same as (3)(ii) above.

iii.) Maximum Hazardous Waste Feed rate- same as (3)(iii) above.

5. Mercury - To comply with the mercury standard, the permittee must establish operating parameter limits per 40CFR 63.1209(l).

6. Particulate Matter - To comply with the particulate matter standard, the permittee must establish operating parameter limits per 40CFR 63.1209(m.)

7. Semivolatile Metals and Low Volatile Metals - To comply with the semivolatile and volatile metals standards, the permittee must establish operating parameter limits per 40CFR 63.1209(n).

8. Hydrochloric Acid and Chlorine Gas - To comply with the hydrochloric acid and chlorine gas standards, the permittee must establish operating parameter limits per 40 CFR 63.11209(o).

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 88: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 6NYCRR 201-7.

Item 88.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN
Process: 302 Emission Source: 13002

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 88.2:
Compliance Certification shall include the following monitoring:

Capping: Yes
Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
The backup incinerator shall not operate more than 2880 hours during any twelve consecutive month period.

Monitoring Frequency: DAILY
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2002.
Subsequent reports are due every 6 calendar month(s).

Condition 89: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 6NYCRR 212.11

Item 89.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN
Process: 302 Emission Source: 13002

Item 89.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE
Monitoring Description:
Combustion efficiency of 99% or greater.

Parameter Monitored: COMBUSTION EFFICIENCY
Upper Permit Limit: 99 percent

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE AT ANY TIME
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 90: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 6NYCRR 212.4(c)

Item 90.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN Emission Point: 13002

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 90.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
Emissions of solid particulates are limited to less than 0.050 grains of particulates per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis. Compliance testing will be conducted at the discretion of the Department.

Parameter Monitored: PARTICULATES
Upper Permit Limit: 0.05 grains per dscf
Reference Test Method: EPA Method 5
Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 91: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 6NYCRR 212.6(a)

Item 91.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN Emission Point: 13002

Item 91.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
No person will cause or allow emissions having an average opacity during any consecutive minutes of 20% or greater from any process emission source, except only the emissions of uncombined water. The facility will monitor for visible emissions at least once daily and maintain recods of the observations. In addition the Department may request the facility to perform a method 9 opacity evaluation.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2002.
Subsequent reports are due every 6 calendar month(s).

Condition 92: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 6NYCRR 212.9

Item 92.1:
The Compliance Certification activity will be performed for:

Emission Unit: 3-PYRIN Emission Point: 13002
Process: 302

Item 92.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL DEVICE PARAMETERS AS SURROGATE
Monitoring Description:
Degree of air cleaning required for A rated contaminants is 99%. Actual residence time (0.5 seconds or greater) and temperature (not lower than 760 degrees Centigrade) shall be used as surragates to determine compliance with the degree of air cleaning. Chamber temperature and hours of operation shall be recorded at all times incinerator is in use.

Parameter Monitored: TEMPERATURE
Upper Permit Limit: 760 degrees Centigrade (or Celsius)
Monitoring Frequency: CONTINUOUS
Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE AT ANY TIME
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2002.

Subsequent reports are due every 6 calendar month(s).

Condition 93: Compliance Certification
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable Federal Requirement: 6NYCRR 212.11

Item 93.1:
The Compliance Certification activity will be performed for:

Emission Unit: 5-ACTPY

Item 93.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

Prior to every batch, the following parameters will be checked and the results will be recorded:

1) The water level in the scrubber vessel will be checked through a sight glass. Water level must be greater than or equal to 400 gallons.

2) The pressure for the venturi scrubber will be checked via a pressure gage. The pressure gauge must read less than or equal to 10 inches water column.

Prior to every fourth batch, sampling of the scrubber water will be done to avoid oversaturation of the scrubbing medium. The saturation level is 25% pyridine in scrubber water. The results of this testing will be recorded.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

STATE ONLY ENFORCEABLE CONDITIONS
****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS
This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: **General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5**

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

Condition 94: **Unavoidable noncompliance and violations**
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable State Requirement: 6NYCRR 201-1.4

Item 94.1:
At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

(a) The facility owner and/or operator shall compile and maintain records of all equipment maintenance or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the commissioner's representative when requested to do so in writing or when so required by a condition of a permit issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement, in which case they supercede those stated here. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown

activities and the identification of air contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.

(b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates. These reporting requirements are superceded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

(c) The Department may also require the owner and/or operator to include in reports described under (a) and (b) above an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air contaminants emitted.

(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as determined by the commissioner,. shall be applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.

(e) In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets.

Condition 95: General Provisions
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable State Requirement: 6NYCRR 201-5.

Item 95.1:
This section contains terms and conditions that are not federally enforceable and are not required under the Act or under any of its applicable requirements. Terms and conditions so designated are not subject to the requirements of Section 201-6.4 of Part 201.

Item 95.2:
Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the

Department to revoke or deny a permit.

Item 95.3:
The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

Condition 96: Contaminant List
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable State Requirement: 6NYCRR 201-5.3(b)

Item 96.1:
Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

CAS No: 0NY100-00-0
Name: HAP

CAS No: 0NY998-00-0
Name: VOC

CAS No: 000071-43-2
Name: BENZENE

CAS No: 007439-97-6
Name: MERCURY

CAS No: 0NY075-00-0
Name: PARTICULATES

CAS No: 000630-08-0
Name: CARBON MONOXIDE

CAS No: 068514-31-8
Name: HYDROCARBONS, C1-4

CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN

CAS No: 001746-01-6
Name: 2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN

Condition 97: Air pollution prohibited
Effective between the dates of 03/19/2002 and 03/19/2007

Applicable State Requirement: 6NYCRR 211.2

Item 97.1:
No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.